



IFW  
\$

Patent  
Attorney's Docket No. N.C. 83,977

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of	)	
	)	
BRUCE et al.	)	Group Art Unit: 1733
	)	
Application No.: 10/672,271	)	Examiner: Mayes, Melvin C.
	)	
Filed: September 26, 2003	)	Confirmation No.: 8808
	)	
For: MICROWAVE ASSISTED	)	
REACTIVE BRAZING OF CERAMIC	)	
MATERIALS	)	
	)	

**SECOND INFORMATION DISCLOSURE STATEMENT**

**Director of the U.S. Patent and Trademark Office**  
**PO Box 1450**  
**Alexandria, VA 22313-1450**

Sir:

In accordance with the duty of disclosure under 37 C.F.R. 1.97, the Examiner's attention is directed to the enclosed documents listed on the attached PTO/SB/08B.

This submission is not to be construed as an admission that a search has been made or that the documents listed above are material to the examination of the application.

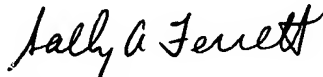
The Examiner is requested to initial the enclosed PTO/SB/08B to indicate the documents have been considered.

This submission is made after a first office action and before a final office action. The Commissioner is authorized to charge the \$200.00 fee due for this submission and any other fee

Application No. 10/672,271  
Attorney's Docket No. N.C. 83,977

that may be required by this paper, and to credit any overpayment, to Deposit Account No. 50-0281.

Should there be any questions regarding this submission, or the application in general, the Examiner is cordially invited to contact the undersigned at the number listed below.

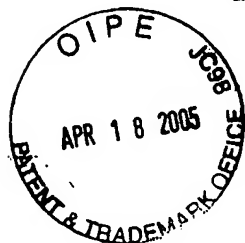
  
Sally A. Ferrett  
Registration No. 46,325

Naval Research Laboratory  
Associate Counsel, Patents (1008.2)  
4555 Overlook Ave., S.W.,  
Washington, D.C., 20375  
(202) 404-1551

April 18, 2005

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

**Complete if Known**

Application Number: 10/672,271  
 Filing Date: March 7, 2003  
 First Named Inventor: Bruce  
 Art Unit: 1734  
 Examiner Name: Mayes, Melvin C  
 Attorney Docket No.: 83,977  
 Date: April 18, 2005

Sheet 1 of 2

**NON PATENT LITERATURE DOCUMENTS**

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T2
		BRUCE, R.W., FLIFLET, A.W., FISCHER, R.P., LEWIS, D., BENDER, B.A., CHOW, G.M., RAYNE, R.J., KURIHARA, L.K., and SCHOEN, P.E., "Millimeter-Wave Processing of Alumina Compacts," in Microwaves: Theory and Application in Materials Processing IV: First World Congress on Microwave Processing: Microwave and RF Technology - From Science to Application, Ceram. Trans. Vol. 80, pp 287-294, 1997.	
		BRUCE, R. W., FLIFLET, A. W., et al. "Microwave Sintering of Pure and Doped Nanocrystalline Alumina Compacts," MRS Symp. Proc., 430, 139 (1996).	
		FLIFLET, A.W., BRUCE, R.W., FISCHER, R.P., LEWIS, D., KURIHARA, L.K., BENDER, B.A., CHOW, G.M., and RAYNE, R.J., "A Study of Millimeter-Wave Sintering of Fine-Grained Alumina Compacts," IEEE Transactions on Plasma Science, 28(3), 924-935 (2000).	
		FLIFLET, A.W., BRUCE, R.W., LEWIS, D., BENDER, B.A., KURIHARA, L.K., "A Study of Millimeter-Wave Sintering of Fine-Grained Alumina Compacts," NRL/FR/6790-98-9884.	
		FLIFLET, A.W., BRUCE, R.W., KINKEAD, A.K., FISCHER, R.P., LEWIS, D., RAYNE, R., BENDER, B., KURIHARA, L.K., CHOW, G.M., and SCHOEN, P.E., "Application of Microwave Heating to Ceramic Processing: Design and Initial Operation of a 2.45-GHz Single-Mode Furnace," IEEE Transactions on Plasma Science, 24(3), 1041-1049 (1996).	
		GOLD, S.H., LEWIS, D.A., FLIFLET, A.W., HAFIZI, B., PENANO, J. R., "Interference and Guiding Effects in the Slabs and Joints with Millimeter Wave Heating of Ceramic Radiation," Journal of Materials Synthesis and Processing, 9(5), 287-297 (2001).	
		LEWIS, D., RAYNE, R.J., BENDER, B., et al., "Conventional and high frequency microwave processing of nanophase ceramic materials," NANOSTRUCTURED MATERIALS 9 (1-8): 97-100, 1997.	
		KURIHARA, L.K., LEWIS, D., IMAM, M.A., JUNG, A., FLIFLET, A.W., "Millimeter Wave Driven Polyol Processing of Nanocrystalline Metals," Abstracts of Papers of the American Chemical Society 221 112-IEC Washington, DC: American Chemical Society, 2001.	

Examiner Signature

Date Considered

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

**Complete if Known**

Application Number: 10/672,271  
 Filing Date: March 7, 2003  
 First Named Inventor: Bruce  
 Art Unit: 1734  
 Examiner Name: Mayes, Melvin C  
 Attorney Docket No. 83,977  
 Date: April 18, 2005

Sheet **2** of 2**NON PATENT LITERATURE DOCUMENTS**

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sub>2</sub>
		KURIHARA, L.K., LEWIS, D., FLILFLET, A.W., BRUCE, R.W., "Millimeter Wave Gyrotron Processing of Nanocrystalline Metallic Films and Powders Using the Polyol Process," Abstracts of Papers of the American Chemical Society, 220 177-IEC (2000).	
		KURIHARA, L.K., LEWIS, D., IMAM, M.A., et al., "Millimeter wave driven polyol processing of nanocrystalline metals," ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY, 221: 112-IEC Part 1 (2001).	
		LEWIS, D., IMAM, M.A., KURIHARA, L.K., FLIFLET, A.W., KINKEAD, A., MISERENDINO, S., EGOROV, S., BRUCE, R.W., GOLD, S., JUNG, A.M., "Material Processing with a High Frequency Millimeter-Wave Source," Materials and Manufacturing Processes, 18(2), 151-167, March 2003.	

Examiner Signature

Date Considered